## CLAIMS

## What is claimed is:

- 1. A magnetic disk for a hard disk drive, comprising: 1
- 2 a substrate;
- a S1 magnetic layer located over said substrate; 3 .
- a layer of ruthenium located over said S1 magnetic 4 layer;
  - a layer of chromium located over said layer of ruthenium; and,
  - a top magnetic layer located adjacent to said layer of chromium.
  - The disk of claim 1, further comprising a S2 2. magnetic layer located adjacent to said layer of chromium and said layer of ruthenium.
  - The disk of claim 1, further comprising an 3. 1
  - underlayer located between said substrate and said S1 2
  - 3 magnetic layer.

- The disk of claim 1, further comprising an overcoat 1
- layer located over said top magnetic layer. 2

- The disk of claim 4, further comprising a layer of 1 5.
- lubricant located over said overcoat layer. 2
- A hard disk drive, comprising: 1
- a base plate; 2
- a spindle motor coupled to said base plate; 3
- a disk coupled to said spindle motor, said disk including;
  - a substrate;
  - a S1 magnetic layer located over said substrate;
  - a layer of ruthenium located over said S1 magnetic layer;
  - a layer of chromium located over said layer of ruthenium;
- a top magnetic layer located adjacent to said 12
- layer of ruthenium; 13

- an actuator arm mounted to said base plate; 14
- a voice coil motor coupled to said actuator arm; 15
- a flexure arm coupled to said actuator arm; and, 16
- a head coupled to said flexure arm and said disk. 17

- 1 7. The hard disk drive of claim 6, further
- 2 comprising a S2 magnetic layer located adjacent to said
- 3 layer of chromium and said layer of ruthenium.
- 1 8. The hard disk drive of claim 6, further
  2 comprising an underlayer located between said substrate and
  3 said S1 magnetic layer.
  - 9. The hard disk drive of claim 6, further comprising an overcoat layer located over said top magnetic layer.
  - 10. The hard disk drive of claim 9, further comprising a layer of lubricant located over said overcoat layer.
  - 11. A method for fabricating a disk of a hard disk drive, comprising:
- forming a layer of S1 magnetic material over a
- 4 substrate;

1511121万

- forming a layer of ruthenium over the layer of S1
- 6 magnetic material;
- forming a layer of chromium over the layer of
- 8 ruthenium; and,

1

- 1 12. The method of claim 11, further comprising forming
- 2 a layer of S2 magnetic material between the layer of
- 3 ruthenium and layer of chromium.
  - 13. The method of claim 12, further comprising forming an underlayer between the substrate and the layer of S1 magnetic material.
    - 14. The method of claim 13, further comprising forming an overcoat layer onto the top layer of magnetic material.
    - 15. The method of claim 14, further comprising forming a layer of lubricant onto the overcoat layer.